

Nitrogen generator

Product specifications

Nitrogen generator with membrane technology developed by Pneumatics

- Achievable nitrogen purity: 90%-99.5%
- Inlet pressure range: 4-13 bar
- Input temperature range: 5-50°C
- Required inlet air quality:
 - 1-4-1 according to ISO 8573-1:2010



High quality membrane generator

- High-end membrane made of high-quality aluminum with technically advanced fibers.
- N extraction takes place without any moving parts
- Extraordinary performance for the separation of 90-99.5% nitrogen

No electrical supply

- No electrical power is required thanks to pneumatically operated valves and a battery-powered nitrogen analyzer

Simple, reliable and user-friendly

- Universal plug & play solution
- All filters are integrated in a closed housing
- Immediate supply of nitrogen
- No professional installation or commissioning required

Guaranteed cleanliness

- Nitrogen analyzer (battery powered) with auto-calibration button (optional)
- Purity regulator to ensure constant purity of N in all circumstances Saving compressed air when the desired purity is achieved

With integrated pre-filtration

- A three-stage pre-filtration system is integrated directly inside the generator

Saving air while achieving the required cleanliness

The economizer (pneumatic) automatically stops air consumption when the target pressure is reached

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The new smaller series of nitrogen generators developed by Pneumatech uses the patented compressed air membrane separation technology. Membrane generators are an excellent choice for additive manufacturing applications. Thanks to our solution, the pressure of the produced nitrogen, its purity and the produced volume are exactly WHAT your SLS printer needs. You do not need to use additional pressure boosters, etc.

Thanks to its simple design, durability and ease of use, the generator unit is an ideal solution for 3D printing from materials requiring printing in an inert environment. All pre-filters and controls are part of the package located directly inside the generator. As an optional accessory, we also recommend a regulator of the purity of the produced nitrogen, which ensures truly constant purity in the direction of flow in EVERY situation. Its simple design allows for easy adjustment with a single screw.

An optional Economiser system can also be connected to the generator, which is designed to save operating costs for running the compressor and reduce wear and tear on the air and nitrogen systems. This efficient solution of ours significantly reduces the cost of nitrogen acquisition compared to traditional sources of nitrogen supply.

Specifications	Units	Purity	
Nominal consumption of compressed air	Nm ³ /hr	90%	15.48
		95%	9.72
		96%	9
		97%	7.56
		98%	6.84
		99%	6.12
		99.5%	5.76
Nominal nitrogen supply	Nm ³ /hr	90%	10.08
		95%	4.68
		96%	3.96
		97%	3.24
		98%	2.52
		99%	1.8
		99.5%	1.44
Air number	-	90%	1.5
		95%	2.1
		96%	2.3
		97%	2.3
		98%	2.7
Pressure dew point	°C	99%	3.4
		99.5%	4.0
Length	mm	-40	
	inch	560.0	
Width	mm	22.0	
	inch	285.0	
Height	mm	11.0	
	inch	1150.0	
Mass	kg	45.0	
	lbs	60.0	
The size of the input connection	G	132.3	
The size of the output connection	G	G1/2"	

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SŠeve

Aktovisiven

Glycerine

SLS 3D print,
that you
will enjoy!

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